

CLAIMS:

1. An immiscible polymer blend comprising polyethylene (PE) and acrylonitrile-butadiene-styrene (ABS) or polycarbonate (PC) or a mixture of ABS and PC, wherein said PE
5 has a melt flow at 190°C/2.16Kg of less than about 1, and said PC, ABS or mixture of PC and ABS has a melt flow at 190°C/2.16Kg greater than about 1.
2. The polymer blend of claim 1 which comprises PE and ABS.
- 10 3. The polymer blend of claim 1 which comprises PE and PC.
4. The polymer blend of claim 1 which comprises PE, ABS and PC.
5. The polymer blend of claim 1 wherein said PE is a
15 high density PE (HDPE).
6. The polymer blend of claim 1 wherein said PE is a low density PE (LDPE).
7. The polymer blend of claim 1 wherein said PE has a fractional melt flow.
- 20 8. The polymer blend of claim 1 wherein said PC, ABS or mixture of PC and ABS has a melt flow greater than 1.
9. The polymer blend of claim 1 wherein said PE has a fractional melt flow and wherein said PC, ABS or mixture of PC and ABS has a melt flow greater than 1.
- 25 10. The polymer blend of claim 9 wherein said PE is HDPE.
11. A plastic or polymer composite article formed of the polymer blend of claim 1.
12. The plastic article of claim 11 which is lumber.
- 30 13. The plastic article of claim 11 which is a railroad tie.
14. The plastic article of claim 11 which is a marine piling.

15. A method of making a plastic or polymer composite article, comprising:

(a) preparing an immiscible polymer blend comprising polyethylene (PE) and acrylonitrile-butadiene-styrene (ABS) or
5 polycarbonate (PC) or a mixture of ABS and PC, wherein said PE has a melt flow at 190°C/2.16Kg of less than about 1, and said PC, ABS or mixture of PC and ABS has a melt flow at 190°C/2.16Kg greater than about 1; and

(b) shaping the blend into a desired shape of the
10 article.

16. The method of claim 15 wherein said preparing and shaping comprise continuous extrusion.

17. The method of claim 15 wherein said preparing comprises extrusion.

15 18. The method of claim 15 wherein said shaping comprises molding.

19. The method of claim 15 wherein said preparing and shaping comprises injection molding.